

Observations of Comets made at the Royal Observatory, Cape of Good Hope, in the year 1886.

(Communicated by D. Gill, LL.D., F.R.S., H.M. Astronomer.)

All the observations were made with the Repsold filar micrometer of the 7-inch Equatorial, and they are corrected for the effects of differential refraction.

The observations have been chiefly made by Mr. W. H. Finlay : a few observations of Fabry's Comet by Dr. Gill are marked G.

Comet 1886 . . . (Fabry).

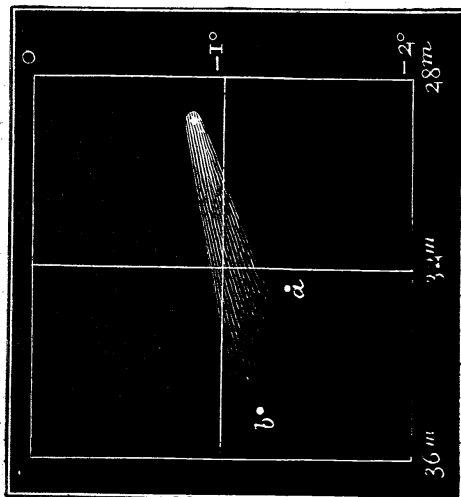
1886.	Cape		Comet—Star		No. of Comps.	Obser- ver.	Comet's App. R.A.		Log. (p × Δ)	Comet's App. Dec.		Log. (p × Δ)	Retl. to App. Place.	Comp. Star No.
	h	m s	Δ α	Δ δ			h	m s		°	' "			
May 1	6	39 12.3	+1 20.42	+6 3.0	6.6	G	4	6 36.01	9.6821	+ 5	19 22.2	0.7021 _n	— 0.56	— 11.3 1
2	6	50 24.5	—0 40.19	—0 42.0	10.10	F	4	32 9.58	9.6757	— 0	38 26.0	0.6895 _n	— 0.55	— 12.8 2
	7	6 57.9	—0 23.52	—4 38.5	11.11	F	4	32 26.25	9.6826	— 0	42 22.5	0.6897 _n	— 0.55	— 12.8 2
3	6	52 17.2	+0 59.52	+2 6.4	16.16	F	4	56 8.07	9.6671	— 6	13 26.9	0.6645 _n	— 0.55	14.2 3
4	6	33 32.8	—1 18.73	—4 15.5	12.12	F	5	18 0.42	9.6424	—11	10 15.6	0.6170 _n	— 0.53	15.8 4
	7	22 21.2	+0 31.78	—0 51.4	12.12	F	5	18 43.70	9.6805	—11	19 45.8	0.6441 _n	— 0.54	— 15.7 5
5	6	26 37.3	+1 40.57	—5 49.3	4.4	G	5	38	9.6236	—15	29	0.5597 _n	— 0.52	— 17.0 6
6	6	46 45.1	+0 40.54	+1 17.8	20.16	F	5	56 34.37	9.6412	—19	13 32.0	0.5234 _n	— 0.49	— 18.3 7
10	7	58 41.1	—1 58.12	+4 12.6	11.11	G	6	52 10.28	9.7055	—28	45 12.7	0.4513 _n	— 0.32	— 21.8 8
11	8	21 13.6	—0 50.74	+6 1.3	22.10	F	7	2 30.94	9.7246	—30	13 40.8	0.4673 _n	— 0.30	— 22.3 9
12	8	13 31.4	+1 53.34	+0 24.5	16.12	F	7	11 34.51	9.7199	—31	26 45.3	0.4202 _n	— 0.28	— 22.5 10
1	7	49 13.4	—1 4.58	—1 14.6	20.16	F	7	19 37.77	9.6959	—32	28 14.6	0.3218 _n	— 0.23	— 23.0 11

r886.	Cape Mean Time.	Comet—Star $\Delta\alpha$	No. of Comps.	Obs- ver.	Comet's App. R.A. h m s	Log. ($p \times \Delta$)	Comet's App. Dec. ° ' "	Log. ($p \times \Delta$)	Red. to App. Place.	Comp. Star No.
May 16	7 57 54.4	m s -0 28.57	16.12	F	7 39 53.61	9.7090	-34 48 34.8	0.2723 _n	-0.16	" 23.6 12
17	7 46 35.6	+0 49.95	20.16	F	7 45 26.57	9.6963	-35 23 33.6	0.2063 _n	-0.14	-23.7 13
21	7 59 48.0	+0 14.74	10.8	F	8 3 48.69	9.7184	-37 9 43.5	0.1981 _n	-0.08	-23.8 14
22	7 43 14.5	-1 5.92	20.16	F	8 7 34.73	9.7001	-37 29 43.2	0.1080 _n	-0.05	-24.1 15
28	8 7 31.9	-1 49.21	16.12	F	8 26	9.7436	-39	0.2067 _n	0.00	-23.9 16
29	7 53 55.6	+0 18.28	20.16	F	8 28 53.45	9.7308	-39 13 35.1	0.1331 _n	-0.02	-23.9 17
June 6	8 25 16.4	-1 5.08	12.12	F	8 46 37.21	9.7817	-40 32 24.9	0.3180 _n	-0.01	-23.2 18
7	7 33 27.6	+0 40.39	12.12	F	8 48 29.15	9.7352	-40 40 40.6	0.0545 _n	-0.01	-23.2 19
10	8 12 3.6	-0 13.48	12.12	F	8 54 3.37	9.7817	-41 5 28.7	0.2862 _n	-0.01	-22.9 20
12	7 45 11.1	+0 24.82	12.12	F	8 57 31.58	9.7646	-41 21 12.0	0.0713 _n	-0.01	-22.7 21
22	8 3 40.1	+0 5.51	20.	F	9 13 35.71	9.8053			-0.02	-21.6 22
	8 14 42.3	+0 3.2	.6	F			-42 38 33.0	0.3854 _n	-0.02	-21.6 22
23	8 11 2.5	-0 49.07	12.	F	9 15 6.72	9.8109			-0.02	23
	8 11 2.5	-1 37.0	.16	F			-42 46 16.1	0.3857 _n	-0.02	-21.5 24
26	7 25 41.7	-2 21.1	.6	F			-43 9 29.2	0.1927 _n	-0.03	-21.1 25
	7 34 1.0	+0 25.46	8.	F	9 19 32.82	9.7959			-0.03	-21.1 25
July 3	7 29 49.3	+0 26.80	10.10	F	9 29 28.86	9.8117	-44 6 36.8	0.2844 _n	-0.04	-20.1 26
5	8 4 9.9	-0 58.7	4	F			-44 23 13.7	0.4395 _n	-0.06	-19.8 27
	8 13 20.4	+1 34.23	4	F	9 32 31.29	9.8337				27
6	7 4 3.0	-0 26.52	12.12	F	9 33 53.06	9.8019	-44 31 24.7	0.1791 _n	-0.04	-19.7 28
7	7 3 30.5	-0 7.0	.10	F			-44 39 55.3	0.1868 _n	-0.05	-19.6 29

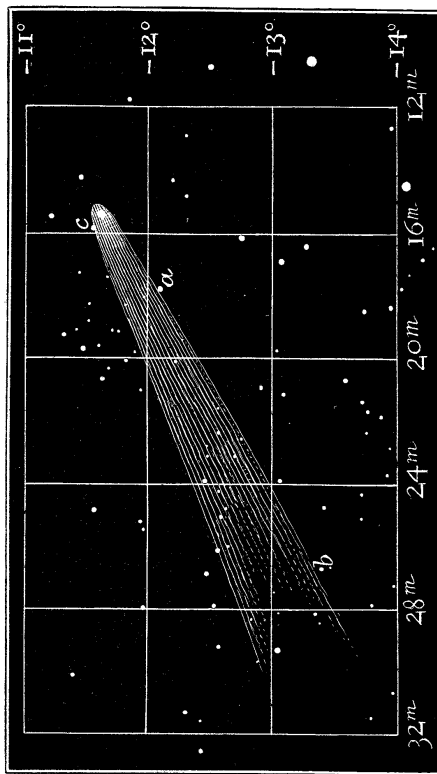
March 1887.

Observations of Comets.

1886.	Cape		Comet—Star		No. of Comps.	Obser- ver.	Comet's App. R.A.		Log. (p × Δ)	Comet's. App. Dec.	Log. (p × Δ)	Rel. to App. Place.	Comp. Star No.	
	h	m	Δα	Δδ			h	m						
July 7	7	26	57.8	+ 0 11.26	"	14.	F	9 35 17.37	9.8200	"	"	"	29	
8	7	19	20.8	- 0 23.15	+ 0 47.0	10.12	F	9 36 41.40	9.8182	- 44 48 44.9	0.2800 _n	- 0.04	- 19.4	30
20	7	26	53.2	- 0 18.26	- 1 10.2	12.8	F	9 53 11.98	9.8495	- 46 39 33.1	0.4194 _n	- 0.06	- 17.6	31
26	7	40	10.0	- 0 51.20	- 0 17.8	8.8	F	10 1 23.37	9.8619	- 47 39 37.4	0.5069 _n	- 0.06	- 16.6	32
30	7	54	42.4	- 0 14.50	+ 1 0.2	6.4	F	10 6 48.28	9.8658	- 48 21 29.6	0.5760 _n	- 0.07	- 15.9	33



Comet Fabry, May 2, 7^h 15^m Cape Meantime
(on Argelauder's Map.)



Comet Fabry, May 4, 8^h 5^m Cape Meantime
(on the Berlin Star Maps).

Notes.

- May 4. Excellent observations : star-like nucleus of 9th magnitude : admits of as easy observation as a star.
5. Observations difficult on account of haze.
21. Haze constantly blotting out comet.
July 5. Comet near a 10½ magnitude star and very faint. Definition exceedingly bad.
6, 8. Very faint : moonlight.
26, 30. Small and faint.

Comet 1886 . . . (Fabry).

Adopted Mean Places of Comparison Stars.

Comp. Star No.	R.A. 1886°0.			Declination 1886°0.			Authority.
	h	m	s	°	'	"	
1	4	5	16.15	+	5	13 30.5	Greenwich 7-year and 9-year.
2	4	32	50.32	—	0	37 31.2	Göttingen, 1263.
3	4	55	9.10	—	6	15 19.1	8½ mag. Equat. diff. from <i>a</i> .
<i>a</i>	4	54	45.61	—	6	21 44.3	W.B. iv. 1177.
4	5	19	19.68	—	11	5 44.3	½ (W.B.V. 407 + Sant. 519).
5	5	18	12.46	—	11	18 38.7	½ (W.B.V. 382 + Sant. 516).
6	5	36	(27)	—	15	23 (42)	(= Lal. 10807).
7	5	55	54.32	—	19	14 31.5	9½ mag. Equat. diff. from <i>b</i> .
<i>b</i>	6	2	43.92	—	19	9 13.5	Stone 2801.
8	6	54	8.72	—	28	49 3.5	ε Can. Maj. N.A.
9	7	3	21.98	—	30	19 19.8	Cord. Z. vii. 209.
10	7	9	41.45	—	31	26 47.3	Cord. Z. vii. 626.
11	7	20	42.58	—	32	26 37.0	8½ mag. Equat. diff. from <i>c</i> .
<i>c</i>	7	17	49.07	—	32	22 13.3	Stone 3602.
12	7	40	22.34	—	34	51 25.3	Cord. Z. vii. 2889.
13	7	44	36.76	—	35	27 14.4	8 mag. Equat. diff. from <i>d</i> .
<i>d</i>	7	46	7.81	—	35	30 4.8	Cord. Z. vii. 3384.
14	8	3	34.03	—	37	5 42.3	Cord. Z. viii. 242.
15	8	8	40.70	—	37	34 53.1	Stone 4207.
16	8	28		—	38	57	9 mag.
17	8	28	35.19	—	39	11 56.5	Cord. Z. viii. 2355.
18	8	47	42.30	—	40	33 28.8	Stone 4707.
19	8	47	48.77	—	40	38 12.2	C. Z. viii. 3879 and Eq. diff. from 18.
20	8	54	16.86	—	41	0 6.1	10 mag. Equat. diff. from <i>e</i> .
<i>e</i>	8	53	20.89	—	40	54 36.2	Cord. Z. viii. 4288.
21	8	57	6.77	—	41	25 1.6	Stone 4803.
22	9	13	30.22	—	42	38 14.6	10 mag. Equat. diff. from <i>f</i> .
<i>f</i>	9	16	29.32	—	42	35 56.1	Cord. Z. ix. 1284.
23	9	15	55.81	—	42	48 49.	dupl. 10 mag. Eq. diff. from 24.
24	9	15	8.43	—	42	44 17.6	Cord. Z. ix. 1175.
25	9	19	7.39	—	43	6 47.0	Cord. Z. ix. 1498.
26	9	29	2.10	—	44	3 36.5	10 mag. Equat. diff. from <i>g</i> .
<i>g</i>	9	25	1.44	—	44	2 25.4	Cord. Z. ix. 1985.
27	9	30	57.12	—	44	21 55.2	9 mag. Equat. diff. from <i>h</i> .
<i>h</i>	9	30	22.77	—	44	18 28.9	Cord. Z. ix. 2418.
28	9	34	19.62	—	44	29 31.7	9½ mag. diff. from C.Z. ix. 2776.
29	9	35	6.16	—	44	39 28.7	Cord. Z. ix. 2746.
30	9	37	4.59	—	44	49 12.5	10½ m. diff. from C.Z. ix. 2715.
31	9	53	30.30	—	46	38 5.3	10½ m. diff. from C.Z. ix. 4184.
32	10	2	14.63	—	47	39 3.0	10½ m. diff. from C.Z. x. 182.
33	10	7	2.85	—	48	22 13.9	Cord. Z. x. 493.

Observations of Comet 1886 . . . (Barnard).

1886.	Cape		Comet-Star.		No. of Comps.	Obs- ver.	Comet's App. R.A.		Log. (p x Δ)	Comet's App. Dec.		Log. (p x Δ)	Red. to App. Place.	Comp. Star No.
	h	m	s	Δ α			h	m		°	'			
May 29	6	1	20.9	+0 47.59	8.8	F	4	34	9.7095	-16	57	0.6685 _n	-0.71	1
June 1	6	10	6.7	-1 25.32	6.4	F	5	12	9.7413	-27	42	0.6059 _n	-0.88	2
5	6	37	12.8	+0 28.98	4.4	F	5	59	9.7890	-37	40	0.5288 _n	-1.04	3
6	6	22	18.8	-0 11.20	20.16	F	6	10	9.7942	-39	27	0.4596 _n	-1.06	4
7	6	8	34.6		6	F				-41	1	0.3609 _n	-1.06	5
	6	23	14.6	-1 19.88	10	F	6	20	9.8008					5
	6	35	45.2	-0 10.94	10	F	6	20	9.8058				-1.06	6
	6	44	44.5		6	F				-41	3	0.4818 _n		6
10	6	42	22.7	+1 29.90	12.8	F			9.8274			0.3716 _n	-1.08	7
	7	13	50.4	-0 17.07	10.8	F			9.8366			0.4833 _n	-1.07	8
12	6	55	56.0	-0 40.77	20.12	F	7	6	9.8433	-46	27	0.3656 _n	-1.05	9
15	7	31	39.5		.4	F		10.		-48	24	0.4405 _n	-1.01	10
	7	41	38.4	+1 31.32	6.	F	7	28	9.8677				-1.01	10
22	8	42	40.7		.4	F		32.35				0.6026 _n	-0.81	11
	8	54	54.4	-4 5.35	4.	F			9.8821					11
23	7	26	39.9	-0 11.38	14.12	F	8	13	9.8880	-51	20	0.3162 _n	-0.82	12
July 5	7	25	17.0	+1 49.85	10.8	F	8	59	9.9090	-53	28	0.2781 _n	-0.64	13